



## PATENT ABSTRACTS OF JAPAN

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(54) **LIGHTWEIGHT CONCRETE ROOF TILE**

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To enhance heat insulating property, sound insulating property and constructing property by substantially flatly molding a hydraulic binder composition containing a synthetic resin foamed body as aggregate so as to have a specified thickness.

**SOLUTION:** A hydraulic binder composition containing a synthetic resin foamed body as aggregate is molded substantially flatly so as to have a thickness of about 6-25mm to form a lightweight concrete roof tile. Two inclined parts 2 are formed on the corner parts of the roof tile 1, two draining grooves 3 are formed on the surface side of the roof tile 1. An air groove 4 bent alternately in horizontal and vertical directions is formed between the inclined part 3b of each draining groove 3 near one edge 1a of the roof tile 1 and the inclined part 2 of each corner part. Further, a circular draining groove 5 is formed so as to surround the upper end part of the inclined part 3b, and narrow and shallow corrugated grooves 6, 7 are formed between the

upper end parts of two vertical parts 3a and between each vertical part 3a and the side end part of the roof tile 1, respectively. The roof tile 1 is driven through a nail hole 8 and fixed along an inclined roof.

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